

FIG. 1A

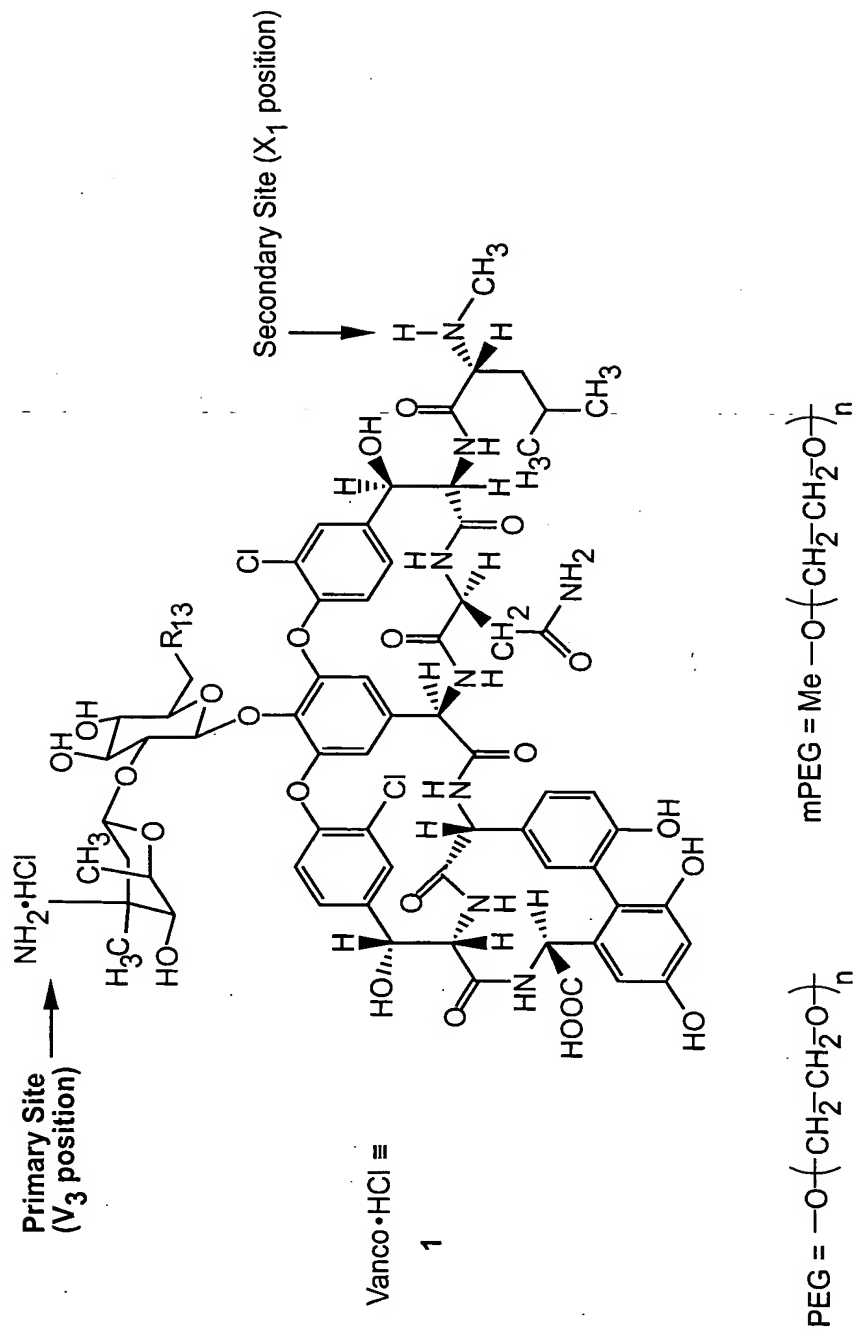


FIG. 1B

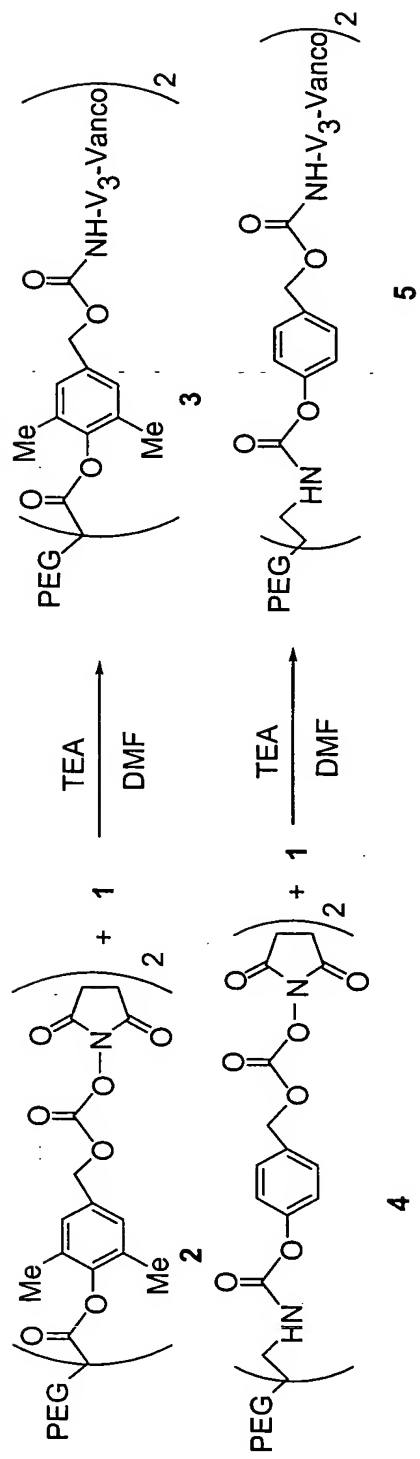


FIG. 2

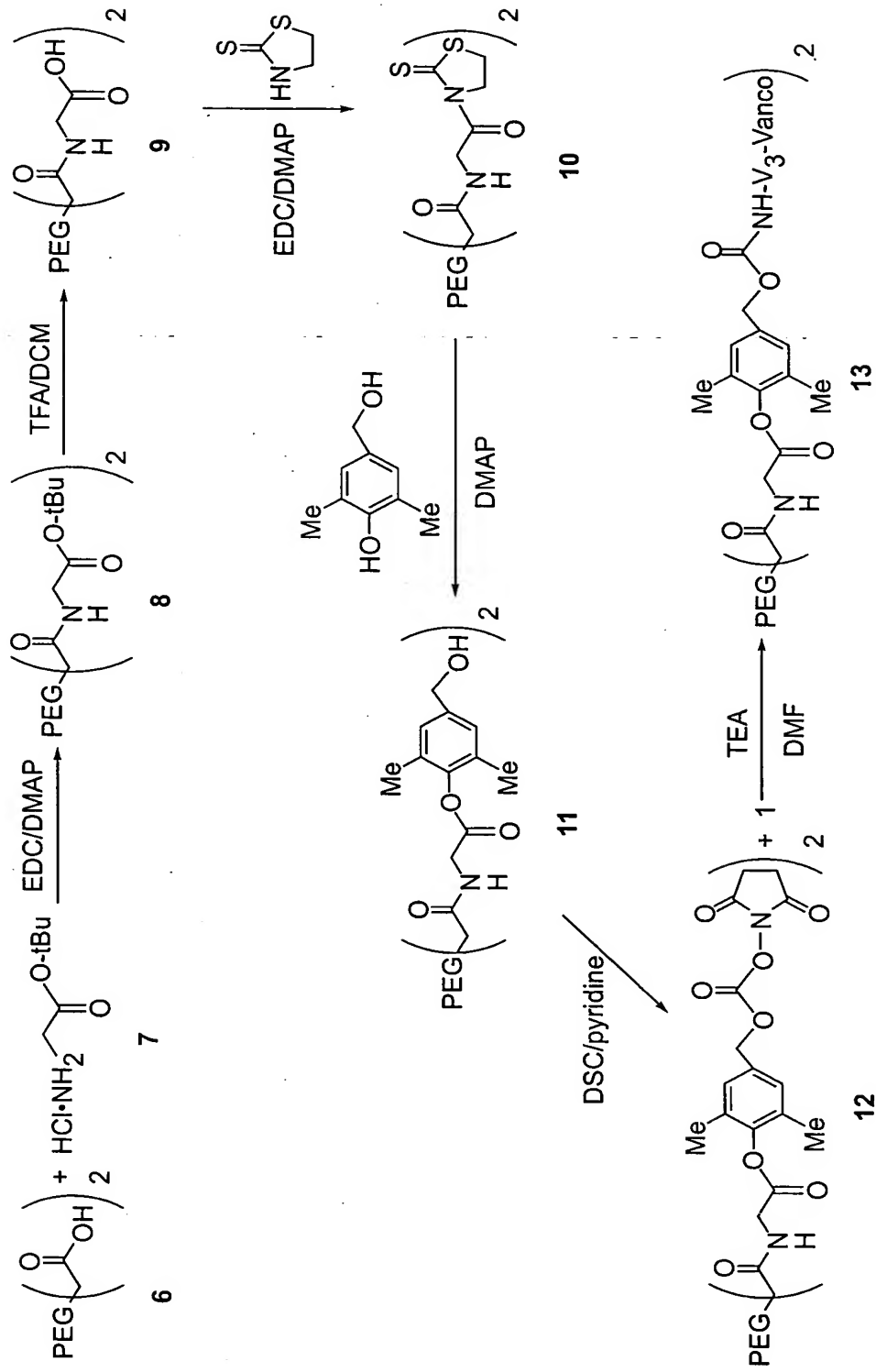
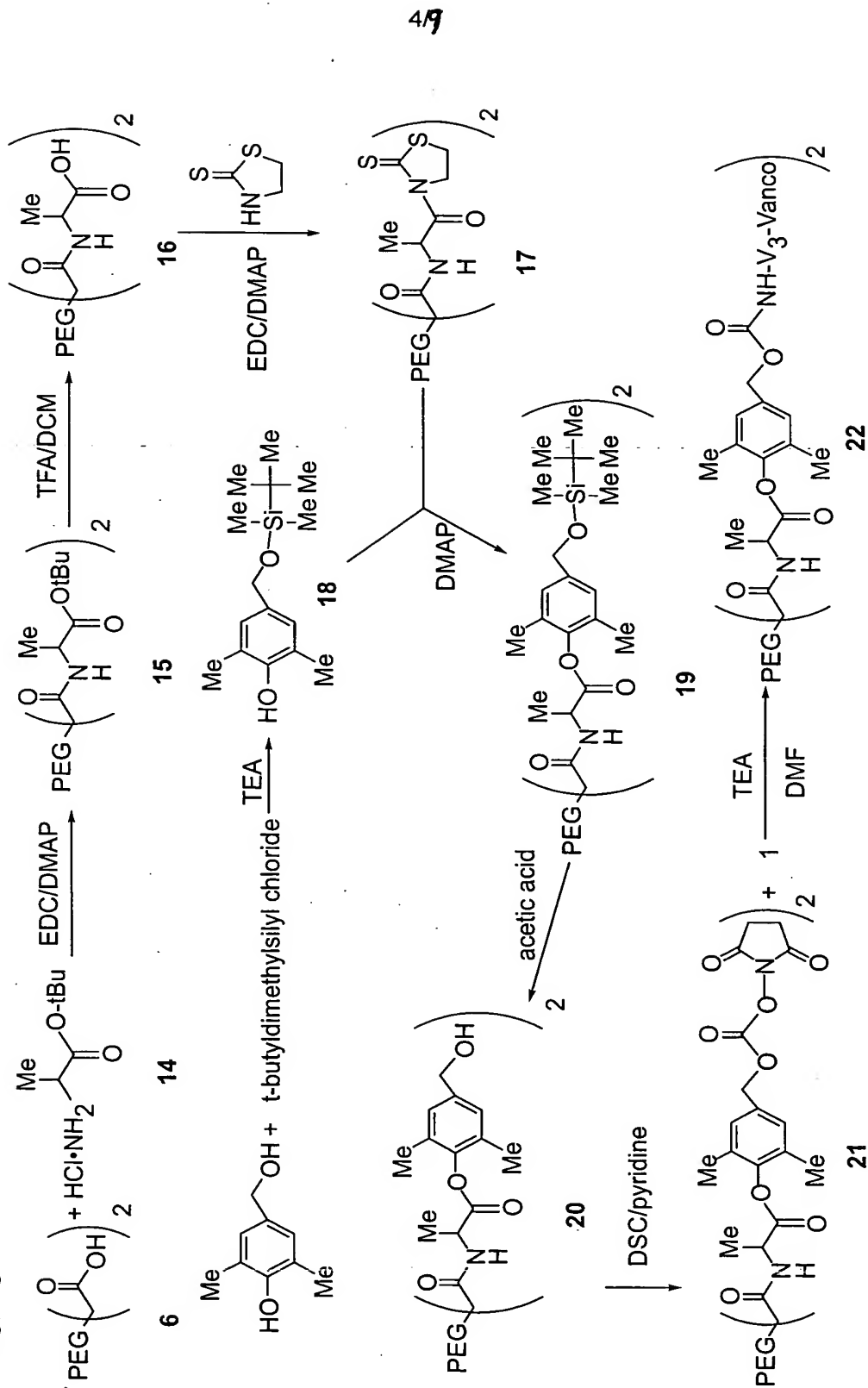


FIG. 3



59

The reaction scheme illustrates the synthesis of compound 30 from compound 23. Compound 23, a PEG-ylated aldehyde, reacts with triphosgene and DMAP to form intermediate 26, which contains a bis-benzylidene acetal protecting group. Compound 26 is then treated with triethylamine (TEA) in dimethylformamide (DMF) to yield compound 24, where the protecting group is removed, revealing a 3,4,5-trimethoxybenzaldehyde moiety. Compound 24 is reduced using sodium borohydride (NaBH<sub>4</sub>) in methanol (MeOH) to form compound 27, which has a 3,4,5-trimethoxybenzyl alcohol group. Compound 27 is then reacted with N,N'-disuccinimidyl carbonate (DSC) in pyridine to form compound 29, which contains two N-succinimidyl ester groups. Finally, compound 29 is reacted with compound 1 (NH-V<sub>3</sub>-Vanco) in the presence of TEA to produce the final product, compound 30, which is a PEG-ylated molecule with a 3,4,5-trimethoxybenzyl ester-linked V<sub>3</sub> vancomycin derivative.

23

triphosgene  
DMAP

26

TEA  
DMF

24

NaBH<sub>4</sub> / MeOH

27

DSC/pyridine

29

1  
TEA

30

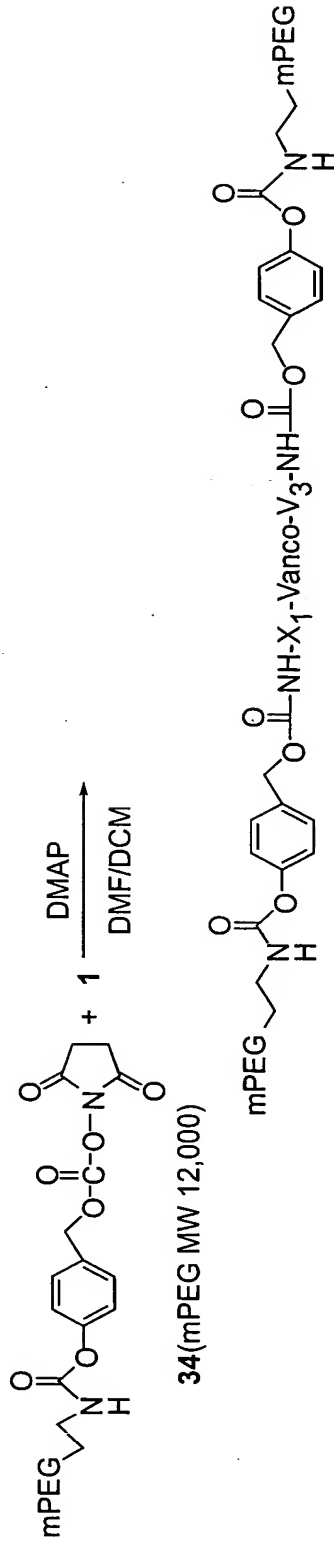


Figure 6a.

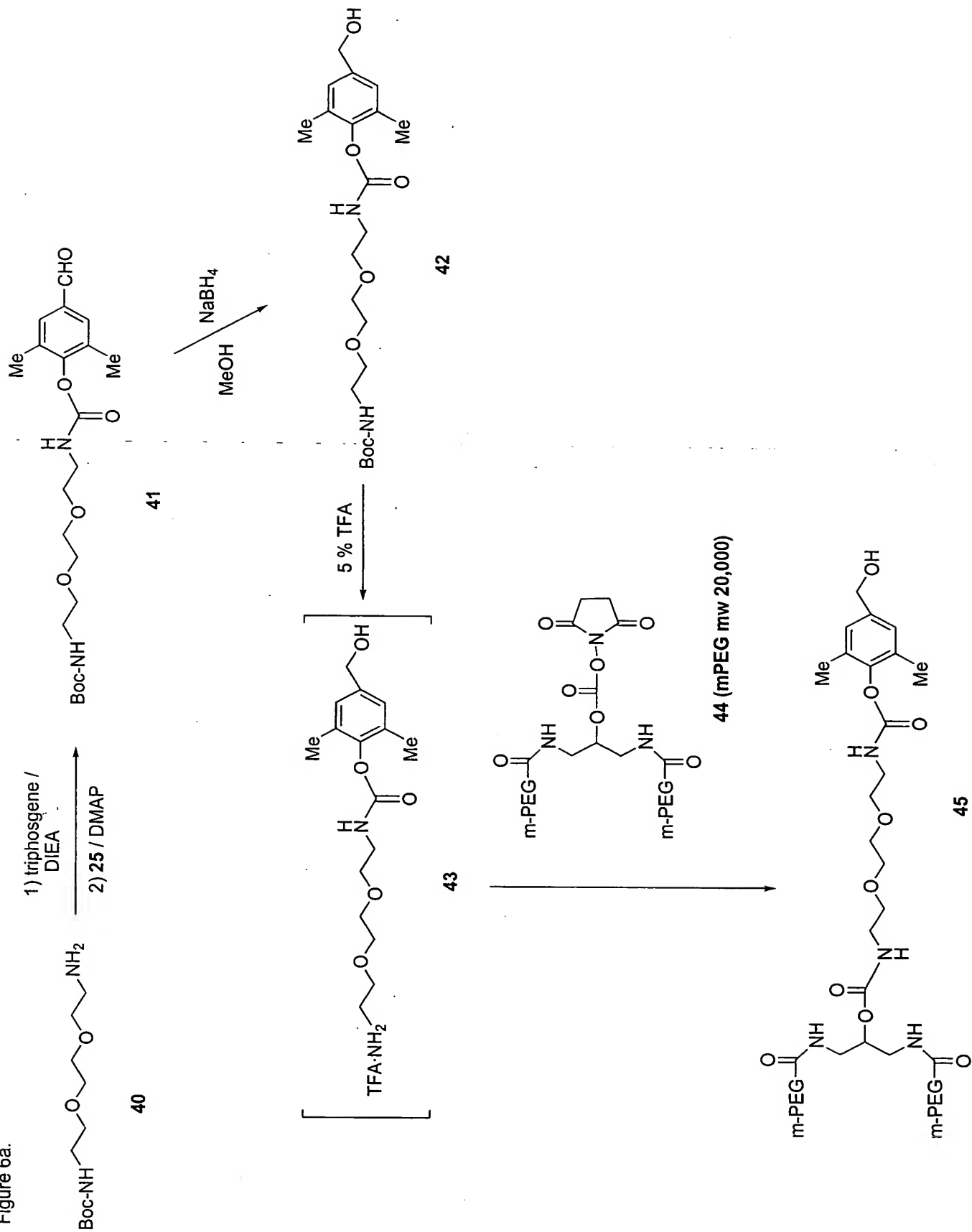


Figure 6b.

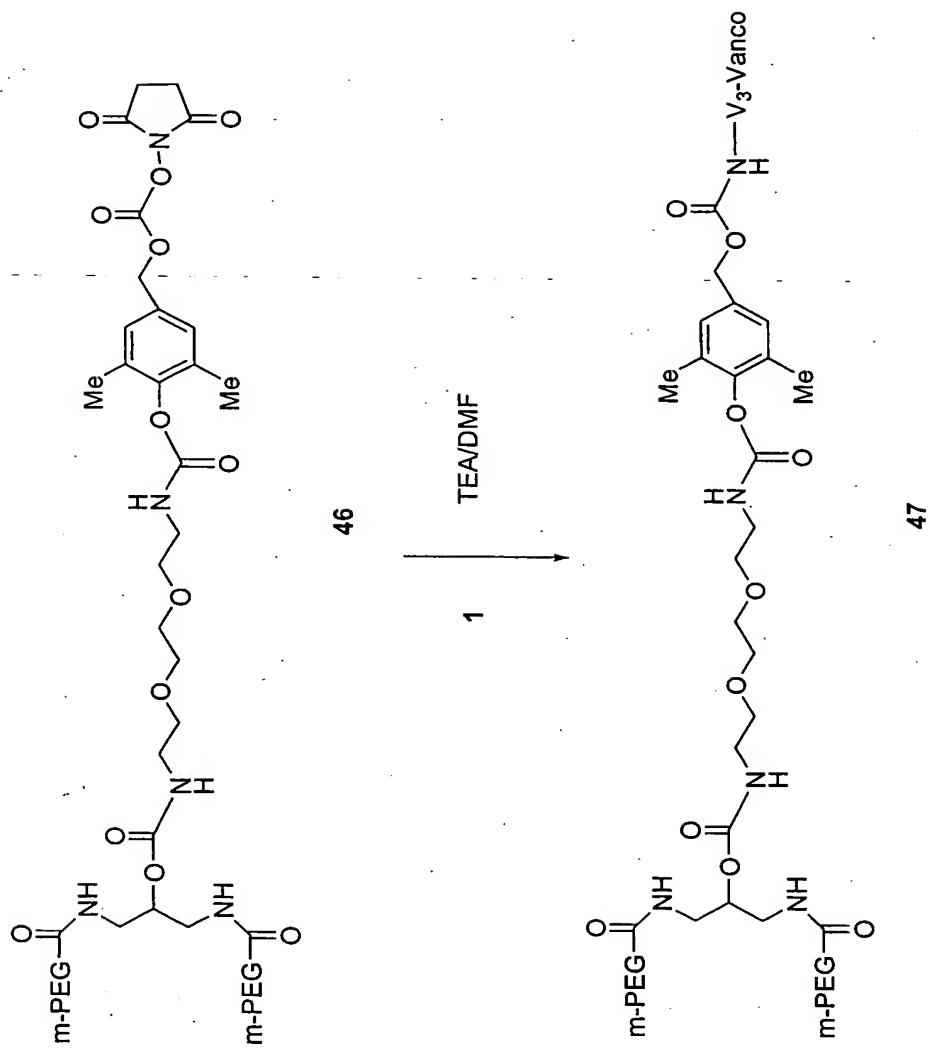




Figure 7.

